



June 29, 2016

Ms. Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Re: Spire Global, Inc. Annual Report for Call Sign S2946

Spire Global, Inc. (“Spire”) is the licensee of the authorized remote sensing satellite system operating under Call Sign S2946 and hereby submits this report on the operation of the satellite system for the 2016 annual period from June 1, 2015 to May 31, 2016. This report is being filed pursuant to Section 25.170 of the Commission’s rules.

I. Status of Satellite System

On March 18, 2016, the Commission granted in part Spire’s application for authority to construct, deploy, and operate a constellation of up to 175 technically identical non-geostationary satellites.¹ The grant authorized nine satellites to be deployed either from the International Space Station (“ISS”) or from the Cygnus cargo capsule.

On May 18, 2016, four of these satellites were successfully deployed from the ISS into their target orbit of 400 km at 51.6 degrees inclination.² We have established a communications link with each of the four satellites, and the satellites, which are still in their post-deployment checkout phase, appear to be operational.

II. Contact Person for Resolution of Interference Problems and For Emergency Response Purposes

For interference problems and emergency response purposes:

Katherine Monson
Head of Ground Operations
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Long-term engineering and technical design issues:

¹ Spire Global, Inc., Stamp Grant, File No. SAT-LOA-20151123-00078 (released March 18, 2016; corrected March 24, 2016).

² Four of the remaining five satellites were successfully deployed into orbit from the Cygnus cargo capsule on June 21, 2016, which is outside of this reporting period. See Letter from Tony Lin, Counsel for Spire, to Marlene H. Dortch, Secretary, Federal Communications Commission (June 29, 2016).



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III. Construction Progress and Anticipated Launch Date

Below is a chart listing previously launched Lemur-2 satellites, pursuant to Call Sign S2946, and upcoming booked launches:

# of Sats	Altitude (km)	Inclination (deg)	Anticipated Launch Date	Launch Site	Status
4	400	51.6	3/22/2016 (launched) 5/18/2016 (deployed)	Cape Canaveral, FL	checkout phase
4 ³	409 x 395 ⁴	51.7	3/22/2016 (launched) 6/21/2016 (deployed)	Cape Canaveral, FL	checkout phase
4	500	51.6	8/15/2016	Wallops, VA	launch pending
8	600	98.0	9/30/2016	Baikonur, Kazakhstan	launch pending
8	450x720	98.0	10/15/2016	Vandenberg, CA	launch pending

Sincerely,

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³ See *supra* note 2.

⁴ The satellites were deployed in a slight elliptical orbit below the ISS.